

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012325\
 Data File : VX044708.D
 Acq On : 23 Jan 2025 15:12
 Operator : JC/MD
 Sample : Q1168-08 5.0PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT1-2025

Quant Time: Jan 24 05:01:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 17 01:21:41 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/24/2025
 Supervised By :Semsettin Yesilyurt 01/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.891	128	32362	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	177314	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	156822	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	84499	27.047	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	90.167%#		
60) 4-Bromofluorobenzene	11.079	95	89499	29.382	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.933%		
63) Toluene-d8	8.641	98	260887	30.586	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.967%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	11626	4.041	ug/l	99
3) Chloromethane	1.294	50	15121	4.996	ug/l	96
4) Vinyl Chloride	1.374	62	14896	5.030	ug/l	94
5) Bromomethane	1.593	94	3416	4.773	ug/l	97
6) Chloroethane	1.666	64	6765	14.407	ug/l	95
7) Trichlorofluoromethane	1.874	101	15214	4.691	ug/l	96
8) Diethyl Ether	2.130	74	5076	4.057	ug/l	82
9) 1,1,2-Trichlorotrifluo...	2.319	101	11731	5.049	ug/l	98
10) 1,1-Dichloroethene	2.312	96	12627	5.282	ug/l	97
11) Methyl Iodide	2.447	142	13421	4.052	ug/l	97
12) Methyl Acetate	2.697	43	14490	4.152	ug/l	99
13) Acrolein	2.233	56	10837	28.080	ug/l	96
14) Acrylonitrile	3.056	53	29104	22.887	ug/l	99
15) Acetone	2.380	58	7930	23.240	ug/l	92
16) Carbon Disulfide	2.501	76	34078	5.130	ug/l	97
17) Allyl chloride	2.654	41	21673	5.028	ug/l	97
18) Methylene Chloride	2.782	84	13520	5.054	ug/l	95
19) trans-1,2-Dichloroethene	3.081	96	11713	4.928	ug/l	94
20) Diisopropyl ether	3.751	45	40836	5.219	ug/l #	79
21) 1,1-Dichloroethane	3.599	63	23254	5.010	ug/l	97
22) cis-1,2-Dichloroethene	4.483	96	14700	4.997	ug/l	98
23) tert-Butyl Alcohol	2.947	59	14713m	23.921	ug/l	
24) Methyl tert-Butyl Ether	3.105	73	39037	4.713	ug/l	98
25) Chloroform	5.080	83	22793	4.942	ug/l	95
26) Cyclohexane	5.458	56	21148	5.421	ug/l #	97
29) 1,1-Dichloropropene	5.684	75	15372	4.984	ug/l	96
30) 2-Butanone	4.556	43	37440	22.099	ug/l	97
31) 2,2-Dichloropropane	4.465	77	19968	4.679	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	19548	4.783	ug/l	98
33) Carbon Tetrachloride	5.666	117	16146	4.683	ug/l	91
34) Benzene	6.031	78	50707	5.153	ug/l	98
35) Methacrylonitrile	4.916	41	8983	4.744	ug/l	92
36) 1,2-Dichloroethane	6.074	62	15707	4.465	ug/l	95
37) Trichloroethene	7.117	130	11337	4.772	ug/l	99
38) Methylcyclohexane	7.373	83	21503	5.131	ug/l	99
39) 1,2-Dichloropropane	7.427	63	12118	4.939	ug/l	93
40) Dibromomethane	7.580	93	8625	4.728	ug/l	99
41) Bromodichloromethane	7.818	83	17390	4.617	ug/l	95
42) Vinyl Acetate	3.715	43	166696	24.775	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	16454	4.951	ug/l	# 98
44) Isopropyl Acetate	6.336	43	27434	4.595	ug/l	99
45) 1,4-Dioxane	7.671	88	4481m	78.818	ug/l	
46) Methyl methacrylate	7.696	41	12778	4.372	ug/l	97
47) n-amyl Acetate	10.841	43	24268	4.843	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	17975	4.521	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	20386	4.782	ug/l	95
50) 1,1,2-Trichloroethane	9.147	97	11692	4.977	ug/l	94
51) Ethyl methacrylate	9.116	69	18656	4.571	ug/l	97
52) 1,3-Dichloropropane	9.305	76	21178	5.212	ug/l	97
53) Dibromochloromethane	9.518	129	13051	4.649	ug/l	98
54) 1,2-Dibromoethane	9.610	107	12052	4.853	ug/l	96
55) 2-Chloroethyl vinyl ether	8.238	63	47744	24.110	ug/l	98
56) Bromoform	10.799	173	8297	4.457	ug/l	97
58) 4-Methyl-2-Pentanone	8.567	43	76753	23.219	ug/l	99
59) 2-Hexanone	9.433	43	53365	22.051	ug/l	99
61) Tetrachloroethene	9.269	164	9263	4.924	ug/l	98
62) Toluene	8.714	91	51197	4.958	ug/l	99
64) Chlorobenzene	10.073	112	31467	4.907	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.159	131	11150	4.840	ug/l	97
66) Ethyl Benzene	10.189	91	57166	5.073	ug/l	98
67) m/p-Xylenes	10.299	106	42467	10.252	ug/l	98
68) o-Xylene	10.640	106	21270	5.116	ug/l	100
69) Styrene	10.652	104	33852	4.959	ug/l	98
70) Isopropylbenzene	10.957	105	53366	5.106	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	17808	5.068	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	13814m	4.673	ug/l	
73) Bromobenzene	11.195	156	12139	4.986	ug/l	99
74) n-propylbenzene	11.299	91	60577	5.103	ug/l	98
75) 2-Chlorotoluene	11.360	91	39175	5.249	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	44351	5.225	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	5850	4.183	ug/l	97
78) 4-Chlorotoluene	11.451	91	42157	5.126	ug/l	100
79) tert-butylbenzene	11.713	119	45449	5.212	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	42162	4.923	ug/l	97
81) sec-Butylbenzene	11.890	105	53821	5.169	ug/l	99
82) p-Isopropyltoluene	12.006	119	43761	5.107	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	21475	4.966	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	21429	5.054	ug/l	98
85) n-Butylbenzene	12.329	91	36763	4.949	ug/l	99
86) Hexachloroethane	12.536	117	9090	4.822	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	21822	5.053	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	3570	4.219	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	12705	4.734	ug/l	99
90) Hexachlorobutadiene	13.725	225	5358	5.161	ug/l	98
91) Naphthalene	13.774	128	45616	4.543	ug/l	98
92) 1,2,3-Trichlorobenzene	13.957	180	13061	4.785	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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